

Title (en)

POP-UP APPARATUS FOR CAMERA MIRROR SYSTEM DISPOSED INSIDE PANEL OF VEHICLE

Title (de)

POP-UP-VORRICHTUNG FÜR EIN INNERHALB EINES FAHRZEUGPANEELS ANGEORDNETES KAMERASPIEGELSYSTEM

Title (fr)

APPAREIL ESCAMOTABLE POUR SYSTÈME DE CAMÉRA-MIROIR DISPOSÉ À L'INTÉRIEUR DU TABLEAU DE BORD D'UN VÉHICULE

Publication

EP 3736174 B1 20220406 (EN)

Application

EP 19209020 A 20191114

Priority

KR 20190053719 A 20190508

Abstract (en)

[origin: EP3736174A1] A pop-up apparatus for a camera mirror system (110) disposed inside a panel (300) of a body of a vehicle includes a camera mirror assembly (100) to provide a rear view of a vehicle, a camera mirror housing (120) disposed to enclose the camera mirror system (110) and configured to move to an outside of the panel (300), and a camera mirror frame (130) configured to receive a driving force from a driving unit (200). The driving unit (200) opens a cover (310) of the panel while driving the camera mirror assembly (100) to move to the outside of the panel through an opened portion of the panel in linkage with the camera mirror frame.

IPC 8 full level

B60R 11/04 (2006.01); **B60R 11/00** (2006.01)

CPC (source: CN EP KR US)

B60R 1/06 (2013.01 - KR); **B60R 1/12** (2013.01 - KR); **B60R 11/00** (2013.01 - CN); **B60R 11/04** (2013.01 - CN EP KR US); **E05F 15/603** (2015.01 - US); **F16H 19/04** (2013.01 - KR); **H04N 23/54** (2023.01 - US); **H04N 23/55** (2023.01 - US); **H04N 23/60** (2023.01 - US); **B60R 2001/1253** (2013.01 - KR); **B60R 2011/004** (2013.01 - CN EP US); **B60R 2011/0043** (2013.01 - US); **B60R 2011/0082** (2013.01 - EP); **B60R 2011/0084** (2013.01 - EP); **B60R 2011/0092** (2013.01 - CN EP US); **B60R 2300/101** (2013.01 - KR); **B60R 2300/105** (2013.01 - KR); **B60R 2300/8046** (2013.01 - US); **E05Y 2201/716** (2013.01 - US); **E05Y 2201/722** (2013.01 - US); **E05Y 2900/53** (2013.01 - US)

Cited by

CN114604186A

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DOCDB simple family (publication)

EP 3736174 A1 20201111; **EP 3736174 B1 20220406**; CN 111907420 A 20201110; KR 102654582 B1 20240403; KR 20200129394 A 20201118; US 11577664 B2 20230214; US 2020353877 A1 20201112

DOCDB simple family (application)

EP 19209020 A 20191114; CN 201911143296 A 20191120; KR 20190053719 A 20190508; US 201916683346 A 20191114